

# Taijie Chen

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## EDUCATION

**The University of Hong Kong**

Ph.D. in Transportation Engineering

Hong Kong, CN

Apr 2023–Apr 2027 (expected)

**The University of Hong Kong**

M.S. in Computer Science

Hong Kong, CN

Sept 2021–Jul 2023

**Nankai University**

B.E. in Software Engineering

Tianjin, CN

Sept 2017–Jun 2021

## PUBLICATIONS

### Journal

- [1] **Chen, T.**, Shen, Z., Feng, S., Yang, L., & Ke, J. (2025). Dynamic matching radius decision model for on-demand ride services: A deep multi-task learning approach. *Transportation Research Part E: Logistics and Transportation Review*, 193, 103822. ([JCR-Q1](#), [SSCI-Q1](#), [SCIE-Q1](#), [IF 8.3](#))
- [2] Feng, S., **Chen, T.**, Zhang, Y., Ke, J., Zheng, Z., & Yang, H. (2024). A multi-functional simulation platform for on-demand ride service operations. *Communications in Transportation Research*, 4, 100141. ([JCR-Q1](#), [IF 12.5](#))

### Conference

- [1] Tan, W., Chen, D., Xue, J., Wang, Z., **Chen, T.**. Teaching-Inspired Integrated Prompting Framework: A Novel Approach for Enhancing Reasoning in Large Language Models. *Proceedings of the 31st International Conference on Computational Linguistics: Industry Track*, accepted. ([CCF-B](#))
- [2] **Chen, T.**, Liu, J., Feng, S., Ke, J. 2025. Enhancing Autonomous Mobility on Demand Systems: A Hierarchical Repositioning Approach Integrating Regional-level and Route-level Decision. *Proceedings of the TRB Annual Meeting 2025*, Washington, DC, USA, January 5–9, 2025.
- [3] **Chen T.**, Liang J., Zhao Y., Ke J., 2024. To grab or not to grab? Revealing determinants of drivers' willingness to grab orders under the broadcasting mode. *Proceedings of the 28th International Conference of Hong Kong Society for Transportation Studies, HKSTS 2024: Transport and Equity*, Hong Kong, December 9–10, 2024.
- [4] **Chen T.**, Liu J., Hu Z., Feng S., Ke J., 2024. A Top-to-Bottom Reposition Method for Ride-hailing Platforms. *Proceedings of the 28th International Conference of Hong Kong Society for Transportation Studies, HKSTS 2024: Transport and Equity*, Hong Kong, December 9–10, 2024.
- [5] **Chen, T.**, Liu, J., Feng, S., Ke, J. 2024. A Top-to-Bottom Reposition Method for Ride-hailing Platforms, Presented in the *Conference in Emerging Technologies in Transportation Systems (TRC-30)*, Crete, Greece, September 2-4, 2024.
- [6] **Chen T.**, Shen Z., Feng S., Ke J., 2023. TEB: A time series model for on-demand e-hailing matching in the broadcasting mode. *Proceedings of the 28th International Conference of Hong Kong Society for Transportation Studies, HKSTS 2023: Transport and Equity*, Hong Kong, December 11–12, 2023.

### Working Paper

- [1] **Chen, T.**, Liang, J., Zhao, Y.\*, & Ke, J. (2024). To grab or not to grab? Revealing determinants of drivers' willingness to grab orders under the broadcasting mode. *Travel Behavior and Society*, under review. ([JCR-Q1](#), [IF 5.1](#))
- [2] **Chen, T.**, Liu, J., Feng, S. \*, Qiu, J., & Ke, J. (2024). Enhancing Autonomous Mobility on Demand Systems: A Hierarchical Repositioning Approach Integrating Regional-level and Route-level Decision. *IEEE Transactions on Intelligent Transportation Systems*, under review. ([SCI-Q1](#), [JCR-Q1](#), [IF 7.9](#))

PATENTS

[1] Ke, J., **Chen T.**, and Wang, J., An AI-based system for simulating a transportation network. U.S. Patent, Application No. 63/669,387, filed on 10 Jul 2024.

SOFTWARE COPYRIGHT

- [1] Teaching resource network management system based on knowledge graph (Registration No.2021SR0651132).
- [2] Teaching resource network making system based on knowledge graph (Registration No.2021SR0651080).
- [3] Teaching resource network display system based on knowledge graph (Registration No.2021SR0651130).

WORK EXPERIENCE

- Algorithm Engineer**, 2012 Laboratory Riemann Laboratory, Huawei Co., Ltd

Jan 2023–Mar 2024

  - Conduct research on ETA and EV energy consumption prediction.
- Algorithm Engineer** , Didi Chuxing Co., Ltd

Nov 2022–Jul 2023

  - Electric Vehicle Anomaly Detection.
- Research Assistant**, The Hong Kong University of Science and Technology

Aug 2022–Mar 2023

  - Research and develop reinforcement learning methods for vehicle dispatching and vehicle repositioning.

PROJECTS

- [1] Tianjin Innovation and Entrepreneurship Training Project, 201910055373, "Digital inheritance of intangible cultural heritage based on VR technology—taking Tianjin’s “Clay Figure Zhang” culture as an example". Sep 2019–Sep 2024, RMB\$ 10,000., PI.
- [2] Smart Traffic Fund, PSRI/78/2311/RA, “SmartSim: AI-assisted Simulation Software for Multimodal Transportation Operations”, 1 Sep 2024 –31 August 2026, Core Member.
- [3] Smart Traffic Fund of Hong Kong SAR Government, PSRI/29/2201/PR, “Development of a Simulation Platform and Artificial Intelligent Algorithms for Optimising Operation and Management of Taxi E-hailing Services”, 31 Mar 2023 – 30 Sep 2024, Core Member.
- [4] CCF-DiDi GAIA 202410. "A Study on Spatiotemporal Supply-Demand Regulation in the Ride-Hailing Scenario". Sep 2024–Sep 2025, RMB\$ 250,000, Core Member.

AWARDS & HONORS

- Postgraduate Scholarship

2023–2027
- Third Prize of China Internet + Tianjin Competition

2020
- Social Welfare Scholarship, Nankai University

2020
- Innovation and Entrepreneurship Scholarship, Nankai University

2020
- Academic Excellence Scholarship, Nankai University

2019

SKILLS & LANGUAGE

- Languages:** Chinese Mandarin (native), English (fluent)
- Programming:** Python, Java, C++.